Western Electric Co., Incorporated, Engineering Dept., New York.

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Issue 2 - BT-438612.

Replacing all previous Issues.

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METHOD OF OPERATION TELEPHONE CIRCUIT

Sender Monitor - Without Ringing and Incoming Call Circuit Feature - Outgoing Trunk Test Board - Machine Switching System.

GENERAL DESCRIPTION

1. This circuit is used at the sender monitor's position with cord circuits arranged for tripping machine ringing. It is provided with a key for disconnecting the monitoring circuit when desired.

DETAILED DESCRIPTION

- 2. When the talking key in the cord circuit is operated, the TP relay operates on ringing current over the T and R leads. The operation of the TP relay connects ground over the R6 lead operating a relay in the cord circuit. This latter relay operated trips machine ringing releasing the TP relay. With the TP relay released ground is connected to the R2 lead and back on the R5 lead, through the contacts of the talking key in the cord circuit, operating the TP-2 relay. The operation of the TP-2 relay causes the TP-3 relay to operate and lock to ground on the R5 lead. The operation of the TP-3 relay opens the circuit through the TP 2 relay causing it to release, and also closes a circuit through the T relay, causing it to operate and connect the telephone set to the cord circuit. The TP-2 relay is slow in releasing to prevent the T relay from operating until after machine ringing has been tripped. When the talking key is restored to normal the TP-3 relay releases, releasing the T relay, restoring the circuit to normal.
- 3. When the double plug of the head set is inserted in the telephone jack, the auxiliary alarm circuit is opened.

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CIRCUIT REQUIREMENTS

	<u>OPERATE</u>	NON-OPERATE	RELEASE
E73 (TP-3)	Test .027 amp. Readj013 amp.	Test .0085 amp. Readj009 amp.	
E148 (T)	Test .038 amp. Readj018 amp.	Test .013 amp. Readj014 amp.	
E221 (TP-2)	Test .016 amp. Readj015 amp.		Test .0020 amp. Readj0022 amp.
SP1.B6 D-22583 Coded B215 (TP)	After a soak of approximately 2021 amp: Test .0014 amp. Readj0013 amp.		After a soak of approximately .021 amp: Test .0004 amp. Readj0004 amp.